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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/630,656	07/31/2003	Ramon A. Gomez	1875.3800000	8254

28393 7590 01/03/2007
STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
1100 NEW YORK AVE., N.W.
WASHINGTON, DC 20005

EXAMINER

HSIA, SHERRIE Y

ART UNIT	PAPER NUMBER
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2622

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary

Application No.

10/630,656

Applicant(s)

GOMEZ ET AL.

Examiner

Sherrie Hsia

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 24-26 is/are allowed.
- 6) ☒ Claim(s) 1-4 and 12-23 is/are rejected.
- 7) ☒ Claim(s) 5-11 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 5/31/06, 9/29/04.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2 and 12-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Mitama (6175728).

As to claims 1, 2, 12, 13, 21 and 23, Mitama discloses the claimed subject matter, the claimed receiving an input signal having an active period and an inactive period and sampling the input signal during the inactive period to generate a sampled signal are met by the amplifier 12 and the mixers 13a, 13b (column 6 line 64-column 7 line 7, column 9 lines 24-67, Figs. 1, 2, 6, 7, 8), the claimed determine the unwanted DC noise is met by the offset canceling voltage generator 200 (Fig. 1, 6, 7) and the claimed subtracting the unwanted DC noise is met by the adder 400 (Fig. 7, column 9 lines 24-67).

As to claims 14, 15, Mitama discloses the claimed subject matter, the claimed receiving an input signal and directly down-converting a desired channel to baseband the down-converted channel having a continuous frequency spectrum around 0 Hz are met by the amplifier 12 and the mixers 13a, 13b (column 6 line 64-column 7 line 7, column 9 lines 24-67, Figs. 1, 2, 6, 7, 8, column 1 lines 30-46) and the claimed compensating the down converted channel is met by the offset voltage canceling circuit 100a (Fig. 1, 6, 7, column 6 line 64-column 7 line 7, column 9 lines 24-67, column 1 lines 30-46).

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As to claim 16, the claimed limitations are disclosed by Mitama (Figs. 1, 2, 6, 7, 8, column 6 line 64-column 7 line 7, column 9 lines 24-67).

As to claim 17, the claimed storing is met by the holding circuit 220 (Fig. 7) and the claimed subtracting is met by the adder 400 (Fig. 7) (column 9 lines 24-67).

As to claim 18, the claimed filtering is met by the filter 16 (first occurrence) (Fig. 6).

As to claim 19, the claimed limitation is inherently disclosed by Mitama (column 6 line 64-column 7 line 7, column 9 lines 24-67).

As to claim 20, the claimed limitation is disclosed by Mitama (Figs. 1, 6, 7).

As to claim 22, the claimed limitations are disclosed by Mitama (Figs. 1, 6, 7, column 6 line 64-column 7 line 7, column 9 lines 24-67, column 1 lines 30-46).

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

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invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mitama (6175728).

As to claims 3 and 4, Mitama shows the claimed invention except the down-converted channel is a down-converted television channel. The examiner takes Official Notice that the TV channel is well known and widely used in the television art for down conversion, and therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Mitama by using the television channel instead of radio channel for down conversion in the direct conversion receiver.

Allowable Subject Matter

3. Claims 5-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. Claims 24-26 appear allowable over prior art.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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Dent (7038733) discloses a television receivers and methods for processing signal sample streams synchronously with line/frame patterns.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sherrie Hsia whose telephone number is (571) 272-7347.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Ometz can be reached on (571) 272-7593.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


Any response to this action should be mailed to:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Or faxed to:

(571) 273-8300

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Customer Service Office whose telephone number is (571) 272-1000.



Sherrie Hsia
Primary Examiner
Art Unit 2622

SH
December 26, 2006